

CLAIMS

1. A modified promoter constructed by inserting a first DNA
fragment including CCAATNNNNNN (a first base sequence: SEQ ID NO:
5 1) and a second DNA fragment including CGNNNNNNNNNGG (a second
base sequence: SEQ ID NO: 2) into a promoter capable of functioning
in a filamentous fungus.

2. The modified promoter according to claim 1, wherein said
10 first base sequence is CCAATTAGAAG (SEQ ID NO: 3).

3. The modified promoter according to claim 1, wherein said
second base sequence is CGGHNWWWWNWHGG (SEQ ID NO: 4).

15 4. The modified promoter according to claim 1, wherein said
second base sequence is CGGWWWWWWWHGG (SEQ ID NO: 5).

5. The modified promoter according to claim 1, wherein said
second base sequence is CGGAAATTTAAAGG (SEQ ID NO: 6),
20 CGGAATTTAAACGG (SEQ ID NO: 7) or CGGAAATTTAACGG (SEQ ID NO: 8).

6. The modified promoter according to claim 1, wherein the
first DNA fragment and the second DNA fragment are inserted so
that they are arranged sequentially from the 5'-end side to the
25 3'-end side of said promoter.

7. The modified promoter according to claim 6, wherein said first DNA fragment and said second DNA fragment are inserted at the 5'-end side that is upstream to a CCAAT sequence existing in said promoter or at the 3'-end side that is downstream to a SRE region existing in the promoter region.

8. The modified promoter according to claim 1, wherein a plurality of said first DNA fragments and a plurality of said second DNA fragments are inserted.

9. The modified promoter according to claim 8, wherein the same number of said first DNA fragments and said second DNA fragments are inserted.

10. The modified promoter according to claim 9, wherein one first DNA fragment and one second DNA fragment are combined as a pair, and in each pair, said first DNA fragment and said second DNA fragment are inserted so that the first DNA fragment is located at the 5'-end side of said promoter.

11. A modified promoter constructed by integrating one to several of either a DNA fragment having a base sequence of SEQ ID NO: 9, or a DNA fragment obtained by partial modification of the DNA fragment and which has an enhancer function, into a promoter

capable of functioning in a filamentous fungus.

12. The modified promoter according to claim 1, wherein said promoter capable of functioning in a filamentous fungus is a
5 promoter of Taka-amylase of *Aspergillus oryzae*.

13. A DNA fragment having an enhancer function consisting of a base sequence of CGGAATTTAAACGG (SEQ ID NO: 7) or CGGAAATTTAACGG (SEQ ID NO: 8).
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14. A modified promoter capable of functioning in a filamentous fungus, comprising a DNA fragment according to claim 13.

15 15. A vector in which the modified promoter according to claim 1 is integrated.

16. A vector in which the modified promoter according to claim 1 is integrated and further a structural gene of a targeted
20 protein is integrated under control of the modified promoter.

17. A transformed filamentous fungus comprising the vector according to claim 16 capable of expressing said structural gene.

25 18. A filamentous fungus comprising the modified promoter

according to claim 1, and a structure gene encoding a targeted protein and being under control of the modified promoter.

19. A method for producing a protein, the method comprising:
- 5 culturing the filamentous fungus according to claim 18 under conditions capable of producing protein; and collecting the produced protein.